



OFFICE USE ONLY			DATE RECEIVED		
REF NO.					
C.R. NO.			CHECK NO.		
STATE WELL NUMBER			TRANSMITTAL NO.		
ENTERED Ph1	Ph2	Ph3	APPROVED BY	DATE	ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME		TELEPHONE WITH AREA CODE		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes Attach a copy of the variance or provide number
OWNER ADDRESS	CITY	STATE	ZIP CODE	
ADDRESS OF WELL SITE (IF DIFFERENT THAN ABOVE)	CITY	STATE	ZIP CODE	
PROPOSED USE OF WELL		INFORMATION VERIFIED BY WELL OWNER SIGNATURE		
<input type="checkbox"/> Heat Pump Well <input type="checkbox"/> Heat Pump Trench (only >10 ft.) <input type="checkbox"/> Other _____ <input type="checkbox"/> Heat Pump Pit (only >10 ft.)		DATE		
LOCATION OF WELL		AREA		
LAT.		ELEV		
LONG.		COUNTY		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> Sec. Township North Range </div> <div> SMALLEST 1/4 1/4 1/4 LARGEST </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <input type="checkbox"/> East <input type="checkbox"/> West </div>				

INFORMATION FOR CLOSED LOOP MATERIAL

INFORMATION FOR CLOSED LOOP MATERIAL			INFORMATION FOR HEAT PUMP WELLS		
TYPE OF HEAT TRANSFER FLUID USED	HEAT PUMP TOTAL TON RATING	DIAMETER OF PIPE USED	NUMBER OF HOLES DRILLED	DIAMETER OF DRILL HOLES	DEPTH OF DRILL HOLES
TOTAL AMOUNT OF PIPE USED	PIPE MATERIAL <input type="checkbox"/> Polybutylene <input type="checkbox"/> Polyethylene <input type="checkbox"/> Copper		TYPE OF GROUT USED <input type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Non Bentonite Slurry <input type="checkbox"/> Pellets Chips Granular	METHOD OF INSTALLATION <input type="checkbox"/> Gravity <input type="checkbox"/> Tremie	ARE THE WELLS CONSTRUCTED THE SAME? <input type="checkbox"/> Yes <input type="checkbox"/> No, Attach differences in construction
WAS LOOP MATERIAL MECHANICALLY CONNECTED? <input type="checkbox"/> Yes <input type="checkbox"/> No		WAS LOOP MATERIAL THERMALLY FUSED? <input type="checkbox"/> Yes <input type="checkbox"/> No			
WAS PERMANENT CASING INSTALLED? <input type="checkbox"/> Yes <input type="checkbox"/> No		WAS FILL MATERIAL CHLORINATED? <input type="checkbox"/> Yes <input type="checkbox"/> No	POSITION ON GROUT SEAL <input type="checkbox"/> Full Length <input type="checkbox"/> Series of 5 ft. Plugs	POUNDS PER BAG	STATIC WATER LEVEL

INFORMATION FOR HEAT PUMP WELLS

INFORMATION FOR CLOSED LOOP MATERIAL				INFORMATION FOR HEAT PUMP WELLS														
TYPE OF HEAT TRANSFER FLUID USED		HEAT PUMP TOTAL TON RATING		DIAMETER OF PIPE USED		NUMBER OF HOLES DRILLED		DIAMETER OF DRILL HOLES		DEPTH OF DRILL HOLES								
TOTAL AMOUNT OF PIPE USED			PIPE MATERIAL <input type="checkbox"/> Polybutylene <input type="checkbox"/> Polyethylene <input type="checkbox"/> Copper			TYPE OF GROUT USED <input type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Non Bentonite Slurry <input type="checkbox"/> Pellets Chips Granular			METHOD OF INSTALLATION <input type="checkbox"/> Gravity <input type="checkbox"/> Tremie		ARE THE WELLS CONSTRUCTED THE SAME? <input type="checkbox"/> Yes <input type="checkbox"/> No, Attach differences in construction							
WAS LOOP MATERIAL MECHANICALLY CONNECTED? <input type="checkbox"/> Yes <input type="checkbox"/> No				WAS LOOP MATERIAL THERMALLY FUSED? <input type="checkbox"/> Yes <input type="checkbox"/> No				POSITION ON GROUT SEAL <input type="checkbox"/> Full Length <input type="checkbox"/> Series of 5 ft. Plugs		POUNDS PER BAG		STATIC WATER LEVEL						
WAS PERMANENT CASING INSTALLED? <input type="checkbox"/> Yes <input type="checkbox"/> No				WAS FILL MATERIAL CHLORINATED? <input type="checkbox"/> Yes <input type="checkbox"/> No														
CASING DETAILS		LENGTH ft.	DIAMETER OF CASING in.	MATERIAL <input type="checkbox"/> Plastic <input type="checkbox"/> Steel	CASING DRIVEN? <input type="checkbox"/> Yes <input type="checkbox"/> No	IF FULL LENGTH, TOTAL NUMBER OF BAGS USED		DEPTH		FORMATION DESCRIPTION								
		WEIGHT OR SDR #	DIAMETER OF DRILL HOLE	PACKER USED ON PVC CASING <input type="checkbox"/> None <input type="checkbox"/> Rubber Boot <input type="checkbox"/> Coupling <input type="checkbox"/> Inverted Bell				FROM	TO									
CASING GROUT DETAILS		MATERIAL Cement Bentonite <input type="checkbox"/> Type 1 <input type="checkbox"/> Slurry <input type="checkbox"/> Granular <input type="checkbox"/> Hi-Early <input type="checkbox"/> Chips <input type="checkbox"/> Pellets			NUMBER OF SACKS USED		IF SERIES OF 5 ft. PLUGS, NUMBER OF BAGS USED											
					LBS PER SACK													
		METHOD OF INSTALLATION <input type="checkbox"/> Gravity <input type="checkbox"/> Positive Displacement <input type="checkbox"/> Open Hole <input type="checkbox"/> Tremie			DRILLING SUSPENDED <input type="checkbox"/> Yes <input type="checkbox"/> No ____ Hrs		WERE BENTONITE PLUGS HYDRATED AFTER EMPLACEMENT? <input type="checkbox"/> Yes <input type="checkbox"/> No											
							DEPTH TO TOP AND BOTTOM OF NEAR SURFACE PLUG (MEASURED FROM ORIGINAL GROUND SURFACE) Top _____ ft.. Bottom _____ ft.											
		PRESSURE GROUT <input type="checkbox"/> Through Tremie <input type="checkbox"/> Through Casing					LIST DEPTH TO TOP OF EACH PLUG 1. _____ ft.. 2. _____ ft.. 3. _____ ft.. 4. _____ ft.. 5. _____ ft..											
INFORMATION FOR HEAT PUMP TRENCH OR PIT																		
CONSTRUCTED DEPTH: _____ ft.. CONSTRUCTED WIDTH: _____ ft..																		
CONSTRUCTED LENGTH: _____ ft.																		
PRIMARY CONTRACTOR'S NAME					PERMIT NUMBER													
													DATE HEAT PUMP INSTALLATION COMPLETED		DATE WELL DRILLING WAS COMPLETED			

I hereby certify the heat pump herein described was constructed in accordance with Missouri Department of Natural Resources requirements for the construction of heat pump wells.

WELL DRILLER SIGNATURE	PERMIT NUMBER	DATE	APPRENTICE SIGNATURE	PERMIT NUMBER	DATE
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